

## COMPUTER-AIDED VISUALIZATION AND ANALYSIS SYSTEM FOR SEQUENCE EVALUATION

### ABSTRACT OF THE DISCLOSURE

5           A computer system (1) for analyzing nucleic acid  
sequences is provided. The computer system is used to perform  
multiple methods for determining unknown bases by analyzing  
the fluorescence intensities of hybridized nucleic acid  
probes. The results of individual experiments may be improved  
10 by processing nucleic acid sequences together. Comparative  
analysis of multiple experiments is also provided by  
displaying reference sequences in one area (814) and sample  
sequences in another area (816) on a display device (3).

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